

FUEL SYSTEMS

(F-16)

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1. **Objective.** As prescribed in AFI 38-201, *Determining Manpower Requirements*, this Air National Guard Manpower Standard (ANGMS) quantifies the manpower required to accomplish the tasks described in the work center description for varying levels of workload.
 2. **Authority.** Air National Guard Regulation 66-14, *Maintenance Management*, 13 July 1988, contains policy and procedural guidance for the Fuel Systems work center. This ANGMS has been developed in accordance with functional review procedures contained in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, (formerly AFR 25-5).
 3. **Applicability.** Applies to ANG F-16 Fighter Wings, Groups, and the 114th Fighter Squadron. Excludes the 162nd Fighter Group and the 184th Fighter Group. This standard only applies to peacetime operations.
 4. **Standard Data:**
 - a. Classification. Type II.
 - b. Approval Date. 1 August 1992.
 - c. Man-hour Data Source. Operational Audit method (historical record and technical estimate techniques).
 - d. Standard Man-hour Equation. $Y = -67.10 + 2.223X$.
 - e. Workload Factor:
 - (1) Title. A Programmed Flying Hour.
 - (2) Definition. The average monthly programmed flying hours.
 - (3) Source. USAF Program Document, Volume II, maintained by NGB/FM.
 5. **Application Instructions:**
 - a. The valid man-hour range for this ANGMS is 522.97 through 1112.30.
 - b. This ANGMS is appropriate for use with all peacetime civilian man-hour availability factors.
 - c. Determine the whole manpower requirements for this work center and refer to the appropriate column in the standard manpower table at attachment 2 to determine the required specialties.
 6. **Statement of Conditions:**
 - a. There were no general conditions (environmental, equipment, or facility) which had an impact on the development or application of this manpower standard.
 - b. There were no approved enhancements that impacted the man-hour equation for this work center.

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OFFICIAL

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**2 Attachments
1. Work Center Description
2. Standard Manpower Table**

WORK CENTER DESCRIPTION

Fuel Systems

(F-16)

DIRECT:

1. ON-EQUIPMENT MAINTENANCE:

1.1. MAINTAINS AIRCRAFT FUEL SYSTEM AND COMPONENT. Inspects, troubleshoots, repairs, adjusts, removes, replaces, modifies, and performs functional check on-equipment.

1.1.1. MAINTAINS AIRFRAME SECTION:

1.1.1.1. MAINTAINS FORWARD FUSELAGE SECTION.

1.1.1.2. MAINTAINS CENTER SECTION.

1.1.1.3. MAINTAINS AFT FUSELAGE SECTION.

1.1.1.4. MAINTAINS LEFT AND RIGHT WING ASSEMBLY.

1.1.2. MAINTAINS AUXILIARY POWER PLANT (EPU) AND JET FUEL STARTER.

1.1.3. SERVICES HYDRAZINE TANK.

1.1.4. MAINTAINS EPU INSTRUMENT.

1.1.5. MAINTAINS ENGINE SUPPLY SYSTEM.

1.1.6. MAINTAINS REFUEL AND DEFUEL SYSTEM.

1.1.7. MAINTAINS PRESSURE EXPLOSION SUPPRESSION SYSTEM.

1.1.8. MAINTAINS WING TANK SYSTEM.

1.1.9. MAINTAINS FUEL INDICATING AND CONTROL SYSTEM.

1.1.10. MAINTAINS EXTERNAL FUEL TANK SYSTEM.

1.2. PERFORMS INSPECTION. Performs special, phase, and hourly aircraft inspection.

1.2.1. PERFORMS SPECIAL INSPECTION.

1.2.2. PERFORMS PHASE INSPECTION.

1.2.3. PERFORMS HOURLY INSPECTION.

2. OFF-EQUIPMENT MAINTENANCE:

2.1. MAINTAINS AIRCRAFT FUEL SYSTEM AND COMPONENT. Inspects, troubleshoots, repairs, adjusts, modifies, and performs functional check off-equipment.

2.1.1. MAINTAINS AIRFRAME SEAL PLANE.

2.1.2. MAINTAINS EPU.

2.1.3. MAINTAINS ENGINE SUPPLY SYSTEM.

2.1.4. MAINTAINS REFUEL AND DEFUEL SYSTEM.

2.1.5. MAINTAINS PRESSURE EXPLOSION SUPPRESSION SYSTEM.

2.1.6. MAINTAINS FUEL INDICATING AND CONTROL SYSTEM.

2.1.7. MAINTAINS EXTERNAL FUEL TANK SYSTEM.

3. NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE) AND SHOP INDUSTRIAL EQUIPMENT MAINTENANCE. Inspects and repairs nonpowered AGE and shop industrial equipment.

4. COMPOSITE TOOL KIT (CTK) MAINTENANCE. Performs start and end of day inspection. Maintains CTK by inspecting file for serviceability, performing corrosion control, and replacing tool.

5. TECHNICAL ORDER SUBACCOUNT MAINTENANCE. Receives and posts data and change to technical order file. Maintains file for serviceability.

6. GENERAL SHOP SUPPORT. Performs shop support to include local manufacture items.

7. TIME-COMPLIANCE TECHNICAL ORDER (TCTO) MAINTENANCE. Performs maintenance required on and off the aircraft in accordance with applicable TCTO and completes documentation.

8. FUEL SYSTEM REPAIR FACILITY MANAGEMENT. Performs inspection and maintenance of facility system.

8.1. PERFORMS INSPECTION:

8.1.1. PERFORMS DAILY INSPECTION.

8.1.2. PERFORMS WEEKLY INSPECTION.

8.1.3. PERFORMS MONTHLY INSPECTION.

8.1.4. PERFORMS ANNUAL INSPECTION.

8.2. PERFORMS MAINTENANCE.

9. UNIT TRAINING ASSEMBLY (UTA) PREPARATION. Performs planning and scheduling task associated with preparation for UTA.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's product or service. The major categories of standard indirect work are Supervision, Administration, Meetings, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
Fuel Systems/23320D			522.97 - 1112.30								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Systems Maint Acft Fuel Systems	454X0	Civ	1	1	1	1	1				
	454X3	Civ	3	4	5	6	7				
TOTAL			4	5	6	7	8				
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
TOTAL											